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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/716,040	11/17/2003	Richard Heiss	12400-3	4286
James M. Dunc	7590 09/19/2007 an		EXAMINER	
Klein, DeNatale, Goldner, Cooper, Rosenlieb & Kimball, LLP P.O. Box 11172			CANFIELD, ROBERT	
			ART UNIT	PAPER NUMBER
Bakersfield, CA 93389-1172			3635	
			MAIL DATE	DELIVERY MODE
		•	09/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•	Application No.	Applicant(s)				
	10/716,040	HEISS ET AL.				
Office Action Summary	Examiner	Art Unit				
•	Robert J. Canfield	3635				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet w	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUN 36(a). In no event, however, may a vill apply and will expire SIX (6) MC cause the application to become v	IICATION. a reply be timely filed DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 19 Ju	•					
,	, 					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	х рапе Quayle, 1935 С.	D. 11, 453 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-17,20-39,42-44 and 46-59 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-17,20-39,42-44 and 46-59</u> is/are rejected. 7)□ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
,	, , , , ,					
Application Papers						
9) The specification is objected to by the Examine		iected to by the Evaminer				
10)⊠ The drawing(s) filed on <u>19 June 2007</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correcti						
11) The oath or declaration is objected to by the Ex						
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
1. Certified copies of the priority documents	s have been received.					
Certified copies of the priority documents						
3. Copies of the certified copies of the prior		n received in this National Stage				
application from the International Bureau * See the attached detailed Office action for a list		at received				
Gee the attached detailed Office action for a list	or the certified copies no	n received.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)		v Summary (PTO-413) o(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date		f Informal Patent Application				

Application/Control Number: 10/716,040 Page 2

Art Unit: 3635

1. This Office action is in response to the amendment filed 06/19/07. Claims 1-17, 20-39, 42-44 and 46-59 are pending. Claims 18, 19, 40, 41, and 45 have been canceled.

- 2. The replacement drawing sheets filed 06/19/07 are accepted.
- 3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 4. Claims 1-5, 7, 10-12, 14-17, 20-23, 25, 28-30, 32, 36-39, 42-44, 46, 48, 52, and 54-58 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 3,157,189 to Farnham.

Farnham provides a power operated crutch (an art equivalent term for a cane) comprised of a second member 14 telescopically received within a first member 12, a ground engaging tip 21, a ball screw 24 and ball nut (col. 2, line 57+), a motor 20 attached to the ball screw (figure 2), the motor operated by switch 46 and powered by battery 44, a handle 16 and suitable gearing (col. 2, line 70). Farnham fails to specify that the ball screw is attached to the power means by a planetary gear train comprising first and second planetary gear assemblies. Planetary gear assemblies used with ball screws for moving objects along a linear path are well known in gearing arts and would have been an obvious choice to design for the "suitable gearing" of Farnham. The use of planetary

Application/Control Number: 10/716,040

Art Unit: 3635

gearing would yield predictable results to those familiar with mechanical engineering and Farnham provides the suggestion that known gearing arrangements may be used.

5. Claims 6, 24, 47 and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over by U.S. Patent 3,157,189 to Farnham.

Farnham as modified above provides each of the elements of these claims except that the housing comprises a thermoplastic material. Farnham is silent to the material. The examiner takes Official Notice that thermoplastics would have been obvious material choices at the time of the invention to one having ordinary skill in the art for use in making the crutch of Farnham. It would have been obvious to have used thermoplastics for their inherent material properties such as light weight, corrosion resistance, and ease in forming.

6. Claims 8, 9, 26, 27, 49 and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over by U.S. Patent 3,157,189 to Farnham.

Farnham as modified above provides each of the elements of these claims except for calling for stop pins. Farnham discusses the use of stop means at column 3, line 24+ and also discusses that known ball screw and nut devices may be used as the actuator. Freewheeling ball screw/nut assemblies using stop pins are well known and it would have been obvious at the time of the invention to one having ordinary skill in the art to use in the crutch of Farnham to prevent

Art Unit: 3635

the nut from traveling even when power remains engaged and thus prevent damage which Farnham discusses at column 3, lines 24+.

7. Claims 13, 31, 33, 34, 35, 51 and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over by U.S. Patent 3,157,189 to Farnham in view of WO 99/00101.

Farnham as modified aboveprovides each of the elements of the claims except that the battery 44 is located within the handle and is rechargeable.

Applicant admits on page 2, line 15 of his specification that one of ordinary skill in the art readily recognize that the battery could be place in many different locations and the WO patent shows that at the time of the invention it was known to provide the battery 15 within the handle. To have placed the battery of Farnham within the handle of Farnham would have been an obvious choice of design at the time of the invention to one having ordinary skill in the art in view of the teaching of the WO patent.

It would have been obvious at the time of the invention to one having ordinary skill in the art that a rechargeable battery (which would inherently have a recharging port) could have been used as the "suitable battery means 44" of Farnham as rechargeable batteries are well recognized equivalent to disposable batteries and are an obvious choice for their inherent benefits to the environment.

Application/Control Number: 10/716,040

Art Unit: 3635

8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 5,086,861 to Peterson teaches the use a planetary gear sets with electric motors and ball screw assemblies.

Page 5

9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert J. Canfield whose telephone number is 571-272-6840. The examiner can normally be reached on M-Th.

Art Unit: 3635

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Rich Chilcot can be reached on 571-272-6777. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert J Canfield Primary Examiner Art Unit 3635

09/14/07